

1. Product and Company Identification

Product Code:	V6204		
Product Name:	VAPORENE 6204		
Company Name:	THE METRO GROUP, INC	Phone Number:	
	50-23 23RD STREET	(718)729-7200	
	LONG ISLAND CITY, NY 11101		
Web site address:	www.metrogroupinc.com		
Email address:	info@metrogroupinc.com		
Emergency Contact:	CHEMTREC	(800)424-9300	
Synonyms:	BOILER WATER INHIBITOR		

2. Hazards Identification

GHS Hazard Phrases:	May be harmful in contact with skin. May be harmful if swallowed. Causes eye irritation.
GHS Precaution Phrases:	Keep out of reach of children. Keep container tightly closed. Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority.
GHS Response Phrases:	IF IN EYES: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. IF SWALLOWED: Call a doctor if you feel unwell.
GHS Storage and Disposal Phrases:	Store in cool, dry place and keep the container tightly closed.
OSHA Regulatory Status:	This material is classified as not hazardous under OSHA regulations.
Potential Health Effects (Acute and Chronic):	Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of inhalation. Potential Chronic Health Effects: Slightly hazardous in case of skin contact (sensitizer). CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage
Inhalation:	Inhalation of material may be harmful.
Skin Contact:	Moderately irritating to the skin.
Eye Contact:	Causes eye irritation.
Ingestion:	May be harmful if swallowed.
Medical Conditions Generally Aggravated By Exposure:	Not Determined

CAS #	Hazardous Components (Chemical Name)	Concentration
1303-96-4	Borax	<5.000 %
7632-00-0	Sodium nitrite	10.000 - 30.000 %
1310-73-2	Sodium hydroxide	<5.000 %
NA	(Trade Secret)	<1.000 %
NA	(Trade Secret)	<1.000 %

Emergency and First Aid Procedures:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If in Eyes: In case of Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
In Case of Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In Case of Skin Contact:	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
In Case of Eye Contact:	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.
In Case of Ingestion:	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Signs and Symptoms Of Exposure:	Moderate irritation effect.
Indication of any immediate medical attention and special treatment needed:	Use first aid treatment according to the nature of the injury.
Note to Physician:	Treat symptomatically and supportively.

Flash Pt:	> 200.00 F (93.3 C)	Method Used:	Closed Cup
Explosive Limits:	LEL: No data.	UEL:	No data.
Autoignition Pt:	~ 699.80 F (371.0 C)		
Suitable Extinguishing Media:	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam.		
Unsuitable Extinguishing Media:	Water jet.		
Fire Fighting Instructions:	Evacuate area and fight fire from a safe distance. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.		
Flammable Properties and Hazards:	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.		
Hazardous Combustion Products:	Carbon monoxide, Carbon dioxide.		

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures:	Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Environmental Precautions:	Precautions: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under afume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, reducing agents, acids, alkalis, moisture.
Steps To Be Taken In Case Material Is Released Or Spilled:	Small Spill: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. Large Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

7. Handling and Storage

Precautions To Be Taken in Handling:	Wash hands before eating. Avoid contact with skin and eyes.
Precautions To Be Taken in Storing:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Other Precautions:	Store in a closed container. Store in a cool dry place.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
1303-96-4	Borax	No data.	TLV: 5 mg/m3	No data.
7632-00-0	Sodium nitrite	No data.	No data.	No data.
1310-73-2	Sodium hydroxide	PEL: 2 mg/m3	CEIL: 2 mg/m3	No data.
NA	(Trade Secret)	No data.	No data.	No data.
NA	(Trade Secret)	No data.	No data.	No data.
Recommended Exposure Limits:		TWA: 10 (mg/m3) from AIHA Consult local authorities for acceptable exposure limits.		

Respiratory Equipment (Specify Type):	NIOSH/MSHA approved respirator
Eye Protection:	Goggles
Protective Gloves:	Rubber gloves
Other Protective Clothing:	Wear appropriate protective clothing to minimize contact with skin.
Engineering Controls (Ventilation etc.):	Ventilation is normally required when handling or using this product.
Environmental Exposure Controls:	Good general ventilation should be sufficient to control airborne levels.

9. Physical and Chemical Properties

Physical States:	[] Gas [X] Liquid [] Solid
Appearance and Odor:	Odor: No apparent odor. Appearance: Clear Liquid
pH:	No data.
Melting Point:	No data.
Boiling Point:	> 300.00 F (148.9 C)
Flash Pt:	> 200.00 F (93.3 C) Method Used: Closed Cup
Evaporation Rate:	No data.
Flammability (solid, gas):	No data available.
Explosive Limits:	LEL: No data. UEL: No data.
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	No data.
Specific Gravity (Water = 1):	No data.
Solubility in Water:	No data.
Solubility Notes:	Complete
Octanol/Water Partition Coefficient:	No data.
Autoignition Pt:	~ 699.80 F (371.0 C)
Decomposition Temperature:	No data.
Viscosity:	No data.

10. Stability and Reactivity

Reactivity:	Hygroscopic; keep container tightly closed. Incompatible with chloroformates, strong acids (nitric acid, hydrofluoric acid), caustics, aliphatic amines, isocyanates, strong oxidizers, acid anhydrides, silver nitrate, reducing agents.
Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	Incompatible materials, excess heat, exposure to moist air or water
Incompatibility - Materials To Avoid:	Reactive with oxidizing agents, reducing agents, acids, alkalis.
Hazardous Decomposition or Byproducts:	Carbon monoxide, Carbon dioxide.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

11. Toxicological Information

Toxicological Information:	Special Remarks on other Toxic Effects on Humans: Acute Potential Health Effects: Skin: May cause mild skin irritation. It may be absorbed through the skin and cause systemic effects similar to those of ingestion. Eyes: May cause mild eye irritation with some immediate, transitory stinging, lacrimation, blepharospasm, and mild transient conjunctival hyperemia. There is no residual discomfort or injury once it is washed away. Inhalation: May cause respiratory tract irritation. Ingestion: It may cause gastrointestinal tract irritation. It may affect behavior/central nervous system (CNS depression, general anesthetic, convulsions, seizures, somnolence, stupor, muscle contraction or spasticity, coma), brain (changes in surface EEG), metabolism, blood (intravascular hemolysis, white blood cells - decreased neutrophil function), respiration (respiratory stimulation, chronic pulmonary edema, cyanosis), cardiovascular system (hypotension, bradycardia, arrhythmias, cardiac arrest), endocrine system (hypoglycemia), urinary system (kidneys), and liver. Chronic Potential Health Effects: Skin: Prolonged or repeated skin contact may cause allergic contact dermatitis. Ingestion: Prolonged or repeated ingestion may cause hyperglycemia and may affect behavior/CNS (symptoms similar to that of acute ingestion). Inhalation: Prolonged or repeated inhalation may affect behavior/CNS (with symptoms similar to ingestion), and spleen
Irritation or Corrosion:	Skin corrosion/irritation
Symptoms related to Toxicological Characteristics:	Not reported.
Chronic Toxicological Effects:	May cause damage to the following organs: central nervous system (CNS).
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No

12. Ecological Information

General Ecological Information:	Ecotoxicity: Ecotoxicity in water (LC50): >5000 mg/l 24 hours [Goldfish]. >10000 mg/l 48 hours [guppy]. >10000 mg/l 48 hours [water flea]. BOD5 and COD: Not available. .
Results of PBT and vPvB assessment:	Not determined.
Persistence and Degradability:	Not determined.
Bioaccumulative Potential:	Not determined.
Mobility in Soil:	Not determined.

13. Disposal Considerations

Waste Disposal Method:	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
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14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: CORROSIVE LIQUID, NOS, (CONTAINS SODIUM HYDROXIDE)

DOT Hazard Class: 8 CORROSIVE

UN/NA Number: 1760

Packing Group: II

Precautionary Label: DANGER



15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
1303-96-4	Borax	No	No	No
7632-00-0	Sodium nitrite	No	Yes 100 LB	Yes
1310-73-2	Sodium hydroxide	No	Yes 1000 LB	No
NA	(Trade Secret)	No	No	No
NA	(Trade Secret)	No	No	No

This material meets the EPA ☐ Yes ☒ No Acute (immediate) Health Hazard'Hazard Categories' defined ☐ Yes ☒ No Chronic (delayed) Health Hazardfor SARA Title III Sections ☐ Yes ☒ No Fire Hazard311/312 as indicated: ☐ Yes ☒ No Sudden Release of Pressure Hazard☐ Yes ☒ No Reactive Hazard

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
1303-96-4	Borax	TSCA: Yes - Inventory; NY Part 597: No
7632-00-0	Sodium nitrite	TSCA: Yes - Inventory, 5A(2), 12(b); NY Part 597: Yes
1310-73-2	Sodium hydroxide	TSCA: Yes - Inventory; NY Part 597: Yes
NA	(Trade Secret)	TSCA: Yes - Inventory; NY Part 597: No
NA	(Trade Secret)	TSCA: Yes - Inventory, 4 Test; NY Part 597: No

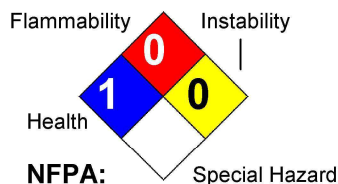
16. Other Information

Revision Date: 05/20/2015

Hazard Rating System:

HEALTH	1
FLAMMABILITY	0
PHYSICAL	0
PPE	H

HMIS:



Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

This information relates to this specific material. It may not be valid for this material if used in combination with other materials or in any process. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for his own particular use.